



STIC Search Report

EIC 2100

STIC Database Tracking Number: 181051

TO: Ji-Young D Chung
Location: RND 4D60
Art Unit: 2143
Thursday, March 02, 2006

Case Serial Number: 10/036140

From: Lucy Park
Location: EIC 2100
RND-4B11
Phone: 571-272-8667

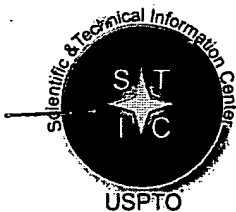
lucy.park@uspto.gov

Search Notes

Dear Examiner Chung,

Here are the search results for your Fast & Focused search request on case number 10/036140. I flagged the results that looked most relevant, but please review all of the results. Please let me know if you have any questions about these or if you need any further information.

Lucy



STIC EIC 2100 181051 Search Request Form

Today's Date:

3/1/06

What date would you like to use to limit the search?

Priority Date: 12/26/2001 Other:

Name Ji-Yong D. Chung

AU 2143 Examiner # 73744

Room # 4D60 Phone 2-7988

Serial # 10/036,140

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP

DWPI

EPO

JPO

ACM

IBM

TDB

IEEE

INSPEC

SPI

Other

PGPUB

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

(see attached)

STIC Searcher Lucy Park

Phone

28667

Date picked up

3/2/06

Date Completed

3/2/06



Relevant Claim: claim 1.

Description:

The technology is a combination of

(1) SCTP (communication protocol)

(2) A software implementation to support SCTP,

The software application involves storing multiple IP addresses (of one of two ends of a communication path) that are provided in SCTP.

Two copies of the application, each on a separate machine, exist in the same network.

The applications are synchronized.



STIC Search Results Feedback Form

EIC 2100

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Anne Hendrickson, EIC 2100 Team Leader
272-3490, RND 4B28

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 2133

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2100 RND, 4B28



File 2:INSPEC 1898-2006/Feb W3
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File 6:NTIS 1964-2006/Feb W2
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File 8:Ei Compendex(R) 1970-2006/Feb W3
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File 23:CSA Technology Research Database 1963-2006/Feb
(c) 2006 CSA.
File 34:SciSearch(R) Cited Ref Sci 1990-2006/Feb W4
(c) 2006 Inst for Sci Info
File 35:Dissertation Abs Online 1861-2006/Feb
(c) 2006 ProQuest Info&Learning
File 65:Inside Conferences 1993-2006/Mar 01
(c) 2006 BLDSC all rts. reserv.
File 94:JICST-EPlus 1985-2006/Dec W1
(c)2006 Japan Science and Tech Corp(JST)
File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Feb
(c) 2006 The HW Wilson Co.
File 111:TGG Natl.Newspaper Index(SM) 1979-2006/Feb 22
(c) 2006 The Gale Group
File 144:Pascal 1973-2006/Feb W1
(c) 2006 INIST/CNRS
File 239:Mathsci 1940-2006/Apr
(c) 2006 American Mathematical Society
File 256:TecInfoSource 82-2006/Feb
(c) 2006 Info.Sources Inc

Set	Items	Description
S1	431	SCTP OR (STREAM OR SIMPLE) ()CONTROL() (TRANSMISSION OR TRANSPORT) () PROTOCOL
S2	10140845	SOFTWARE OR APPLICATION? ? OR PROGRAM? ?
S3	4549218	DATA()STRUCTURE? ? OR RECORD? ? OR LIST??? OR TABLE? ? OR - MATRIX OR MATRICES OR ARRAY? ?
S4	31829	S2:S3(3N) (ADDRESS?? OR IP(3N)NUMBER? ?)
S5	1048	S4(3N) (TWO OR DUAL OR COUPLE OR PAIR OR DUPLICATE? ? OR COPY OR COPIES OR ANOTHER OR SECOND OR 2ND OR NEXT)
S6	1110	S4(3N) (MULTI OR MULTIPLE OR PLURAL??? OR SEVERAL OR MANY OR ADDITIONAL)
S7	378729	SYNCHRONIZ? OR SYNCHRONIS? OR SYNCHRONOUS OR SYNC
S8	1176655	SAME()TIME OR SIMULTANEOUS??
S9	2148	S5:S6
S10	25	S9(10N)S7:S8
S11	0	S1 AND S10
S12	0	S10 AND PROTOCOL? ?
S13	15	S10 NOT PY=2002:2006
S14	12	RD (unique items)
S15	0	S1 AND S9
S16	4	S1 AND S4
S17	4	RD (unique items)
S18	22	S1 AND (FAILOVER? ? OR FAIL()OVER? ? OR REDUNDANCY)
S19	14	RD (unique items)
S20	0	S19 NOT PY=2002:2006
S21	59	S9 AND PROTOCOL? ?
S22	43	RD (unique items)
S23	24	S22 NOT PY=2002:2006
S24	24	S23 NOT (S14 OR S17)

19/5/8 (Item 8 from file: 2)

DIALOG(R) File 2:INSPEC

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08664290 INSPEC Abstract Number: B2003-07-6150M-119, C2003-07-5640-087

Title: Enhancement of failover using application layer watchdog and Sctp heartbeat in Diameter

Author(s): Sang Keun Yoo; Hyun Gon Kim; Seung Won Sohn

Author Affiliation: Inf. Security Technol. Div., ETRI, Daejeon, South Korea

Conference Title: Mobile Communications. 7th CDMA International Conference, CIC 2002. Revised Papers (Lecture Notes in Computer Science Vol.2524) p.239-46

Editor(s): Lee, J.; Kang, C-H

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 2003 Country of Publication: Germany xiv+513 pp.

ISBN: 3 540 00732 6 Material Identity Number: XX-2002-03507

Conference Title: CIC2002 - 7th CDMA Int. Conference

Conference Date: 29 Oct.-1 Nov. 2002 Conference Location: Seoul, South Korea

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: This paper proposes enhanced **failover** for the Diameter-based AAA system. The Diameter application layer watchdog algorithm enables **failover** from a server that has failed. **Sctp** heartbeat is used to perform **failover** between interfaces. This paper adopts both of them to provide efficient **failover** by inspecting the state of connection with the peer as well as the state of the Diameter application of the peer. The proposed **failover** method that enables the Diameter node to use an alternative server as well as alternative communication path provides flexible and efficient **failover** to the Diameter node. (4 Refs)

Subfile: B C

Descriptors: accounting; authorisation; message authentication; transport protocols

Identifiers: **failover** ; AAA service; authentication authorisation and accounting service; application layer watchdog; **Sctp** heartbeat; Diameter; AAA system; peer connection; alternative server; alternative communication path

Class Codes: B6150M (Protocols); C5640 (Protocols); C6130S (Data security)

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File 347:JAPIO Nov 1976-2005/Oct(Updated 060203)
(c) 2006 JPO & JAPIO
File 350:Derwent WPIX 1963-2006/UD,UM &UP=200614
(c) 2006 Thomson Derwent

Set	Items	Description
S1	64	SCTP OR STREAM()CONTROL() (TRANSMISSION OR TRANSPORT) () PROT- OCOL
S2	986139	SOFTWARE OR APPLICATION? ?
S3	1284105	DATA()STRUCTURE? ? OR RECORD? ? OR LIST??? OR TABLE? ? OR - MATRIX OR MATRICES OR ARRAY? ?
S4	16786	S2:S3(3N) (ADDRESS?? OR IP(3N)NUMBER? ?)
S5	878	S4(3N) (TWO OR DUAL OR COUPLE OR PAIR OR DUPLICATE? ? OR CO- PY OR COPIES OR ANOTHER OR SECOND OR 2ND OR NEXT)
S6	528	S4(3N) (MULTI OR MULTIPLE OR PLURAL??? OR SEVERAL OR MANY OR ADDITIONAL)
S7	313117	SYNCHRONIZ? OR SYNCHRONIS? OR SYNCHRONOUS OR SYNC
S8	771091	SAME()TIME OR SIMULTANEOUS??
S9	1328	S5:S6
S10	35	S9(10N)S7:S8
S11	0	S10 AND S1
S12	0	S10 AND PROTOCOL? ?
S13	0	S9 AND S1
S14	55	S9 AND PROTOCOL? ?
S15	16	S14 AND IC=G06F
S16	15	S15 NOT AD=20011226:20031226/PR
S17	15	S16 NOT AD=20031226:20060302/PR
S18	1	S4 AND S1
S19	23	S1 NOT AD=20011226:20031226/PR
S20	17	S19 NOT AD=20031226:20060302/PR
S21	17	S20 NOT S18

File 348:EUROPEAN PATENTS 1978-2006/Feb W03

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File 349:PCT FULLTEXT 1979-2006/UB=20060223,UT=20060216

(c) 2006 WIPO/Univentio

Set	Items	Description
S1	285	SCTP OR (STREAM OR SIMPLE) ()CONTROL() (TRANSMISSION OR TRANSPORT) ()PROTOCOL
S2	2688427	SOFTWARE OR APPLICATION? ? OR PROGRAM? ?
S3	961550	DATA()STRUCTURE? ? OR RECORD? ? OR LIST??? OR TABLE? ? OR - MATRIX OR MATRICES OR ARRAY? ?
S4	36232	S2:S3(3N) (ADDRESS?? OR IP(3N)NUMBER? ?)
S5	3525	S4(3N) (TWO OR DUAL OR COUPLE OR PAIR OR DUPLICATE? ? OR COPY OR COPIES OR ANOTHER OR SECOND OR 2ND OR NEXT)
S6	1572	S4(3N) (MULTI OR MULTIPLE OR PLURAL??? OR SEVERAL OR MANY OR ADDITIONAL)
S7	168349	SYNCHRONIZ? OR SYNCHRONIS? OR SYNCHRONOUS OR SYNC
S8	646539	SAME()TIME OR SIMULTANEOUS??
S9	4642	S5:S6
S10	93	S9(10N)S7:S8
S11	0	S10(S)S1
S12	7	S10(S)PROTOCOL?
S13	7	S12 NOT AD=20011226:20031226/PR
S14	5	S13 NOT AD=20031226:20060302/PR
S15	5	S9(S)S1
S16	5	S15 NOT S12
S17	0	S16 NOT AD=20011226:20031226/PR
S18	12	S1(S)S4
S19	5	S18 NOT AD=20011226:20031226/PR
S20	4	S19 NOT AD=20031226:20060302/PR
S21	4	S20 NOT S14
S22	406	S9(S)S7:S8
S23	67	S22(S)PROTOCOL?
S24	36	S23 AND IC=G06F
S25	33	S24 NOT AD=20011226:20031226/PR
S26	32	S25 NOT AD=20031226:20060302/PR
S27	32	S26 NOT (S14 OR S15 OR S18)
S28	0	S27(S)S1
S29	16	S1(S) (FAILOVER? ? OR FAIL()OVER? ? OR REDUNDANCY)
S30	11	S29 NOT (S14 OR S15 OR S18 OR S27)
S31	8	S30 NOT AD=20011226:20031226/PR
S32	6	S31 NOT AD=20031226:20060302/PR

21/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01493103

SIGNALING TRANSPORT PROTOCOL EXTENSIONS FOR LOAD BALANCING AND SERVER POOL SUPPORT

ERWEITERUNGEN EINES SIGNALISIERUNGS-UBERTRAGUNGSPROTOKOLLS FUR LASTAUSGLEICH UND SERVERPOOL-UNTERSTUTZUNG

EXTENSIONS DE PROTOCOLES DE TRANSPORTS DE SIGNALISATION POUR EQUILIBRAGE DES CHARGES ET ADJONCTION D'UN GROUPE DE SERVEURS

PATENT ASSIGNEE:

Telefonaktiebolaget LM Ericsson (publ), (3258787), , 164 83 Stockholm, (SE), (Proprietor designated states: all)

INVENTOR:

TURINA, Klaus, Stuttgarter Strasse 53, 71522 Backnang, (DE)

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KUSTER, Josephus, 3442 Twin Lakes Dr., Prosper, TX 75078, (US)

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LEGAL REPRESENTATIVE:

HOFFMANN - EITLE (101511), Patent- und Rechtsanwälte Arabellastrasse 4, 81925 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1344369 A2 030917 (Basic)
EP 1344369 B1 050720
WO 2002051095 020627

APPLICATION (CC, No, Date): EP 2001271725 011218; WO 2001EP14952 011218

PRIORITY (CC, No, Date): US 740175 001218

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04L-029/06; H04L-029/12

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200529	1147
CLAIMS B	(German)	200529	933
CLAIMS B	(French)	200529	1512
SPEC B	(English)	200529	6416
Total word count - document A			0
Total word count - document B			10008
Total word count - documents A + B			10008

...SPECIFICATION protocol SCTP layer supports a SCTP association between SCTP endpoints. Each SCTP endpoint has a **list** of transport **addresses** assigned thereto - e.g., multiple IP addresses - to receive or originate **SCTP** user protocol data packets. An **SCTP** association spans transfers over all the possible source address/destination address combinations that may be generated between two **SCTP** endpoints in view of the related **list** of transport **addresses** illustrated as subdivided rectangles in Fig. 3. An **SCTP** association is initiated on request of the signaling endpoint and maintained permanently and allows to link two **SCTP** endpoints via multiple routes. Such a link of two **SCTP** endpoints supports an **SCTP** signaling stream as non-permanent signaling data exchange via an **SCTP** association for control processes.

In the following, a peer signaling association is referred to as...

21/3,K/2 (Item 2 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01261782

System and method for transporting IN/AIN signaling over an internet
protocol (IP) network

System und Verfahren zur Übertragung von IN/AIN Signalisierungsdaten über
ein IP Netzwerk

Système et méthode pour transporter des messages de signalisation de réseau
intelligent sur un réseau IP

PATENT ASSIGNEE:

Alcatel USA Sourcing, L.P., (2618561), 1000 Coit Road, Plano, Texas
75075-5813, (US), (Applicant designated States: all)

INVENTOR:

Dantu, Ramanamurthy, 3103 Kingsbury Drive, Richardson, Texas 75082, (US)
Davis, Robert Wayne, 13939 Far Hills Lane, Dallas, Texas 75240, (US)
George, Thomas Lamar, Jr., 2201 Teakwood Lane, Plano, Texas 75075, (US)

LEGAL REPRESENTATIVE:

Dreiss, Fuhlendorf, Steimle & Becker (100861), Patentanwälte, Postfach 10
37 62, 70032 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 1089575 A2 010404 (Basic)
EP 1089575 A3 030618

APPLICATION (CC, No, Date): EP 2000119962 000914;

PRIORITY (CC, No, Date): US 155041 990921

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): H04Q-003/00

ABSTRACT WORD COUNT: 152

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200114	2072
SPEC A	(English)	200114	9127
Total word count - document A			11199
Total word count - document B			0
Total word count - documents A + B			11199

...SPECIFICATION of link changeover procedures set forth hereinbelow.

Pursuant to the formation of an association, each **SCTP** endpoint provides the other endpoint with a **list** of transport **addresses** (e.g., one or more IP addresses in combination with an **SCTP** port) through which that endpoint can be reached and from which it will originate **SCTP** packets. The association spans transfers over all of the possible source/destination combinations which may be generated from each endpoint's lists. Additional details regarding **SCTP** architecture may be found in the work in progress Internet Draft identified as <draft-ietf-sigtran-**sctp**-13.txt> which is incorporated by reference herein.

Continuing to refer to FIG. 5A, a...

32/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

01791868

Method and apparatus for changeover of associations between signalling processes

Verfahren und Anordnung zum Wechsel von Verbindungen zwischen Signalisierungs-Prozessen

Procede et appareil pour changer des liaisons entre des processus de signalisation

PATENT ASSIGNEE:

Hewlett-Packard Development Company, L.P., (4337790), 20555 S.H. 249,
Houston, TX 77070, (US), (Applicant designated States: all)

INVENTOR:

Lamberton, Marc, 981 route de St Jean, 06600 Antibes, (FR)
Barbier, Stephane, 149 avenue des Sources, 06370 Mouans-Sartoux, (FR)
Desiderio, Didier, Residence "Le Sedaine", 17 rue des Oliviers, 06110 Le
Cannet, (FR)

LEGAL REPRESENTATIVE:

Lloyd, Richard Graham (75505), Hewlett-Packard France Intellectual
Property Section Etablissement de Grenoble, 38053 Grenoble Cedex 09,
(FR)

PATENT (CC, No, Kind, Date): EP 1465440 A1 041006 (Basic)
EP 1465440 A1 041006

APPLICATION (CC, No, Date): EP 2003290837 030403;

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS (V7): H04Q-003/00; H04L-012/66

ABSTRACT WORD COUNT: 171

NOTE:

Figure number on first page: 10 11

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200441	1204
SPEC A	(English)	200441	7642
Total word count - document A			8846
Total word count - document B			0
Total word count - documents A + B			8846

...SPECIFICATION between each SGP and ASP.

Protocol extensions and procedures have been proposed for implementing a **fail - over** mechanism between Stream Control Transfer Protocol (**SCTP**) associations connecting processes in the Application Servers and processes in the Signalling Gateways. They are defined by the IETF in a draft "Correlation Id and Hearbeat Procedures (CORID) Supporting Lossless **Fail - Over** between **SCTP** Associations for Signalling User Adaptation Layers" available from the IETF website at www.ietf.org. This **fail - over** mechanism requires both sides of the associations namely the AS and SG to use a...



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Published before January 2002

Terms used sctp address

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Results 1 - 6 of 6

Relevance scale ☐ ☐ ☐ ☐ ☐1 [Open base situation transport \(OBAST\)architecture](#)

Phillip D. Neumiller, Peter L. Lei, Michael L. Needham

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(1.08 MB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper outlines the requirements for a set of open IP based protocols enabling seamless mobility across diverse radio access networks. We begin by stating some architectural tenets upon which the requirements for the OBAST protocol set are based. Furthermore, what the authors currently believe to be the eventual desirable wireless Internet architecture is described. This architecture is shown to enable a common protocol set that we refer to as the open base station transport (OBAST) protocol ...

2 [Application-layer mobility using SIP](#)

Henning Schulzrinne, Elin Wedlund

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Supporting mobile Internet multimedia applications requires more than just the ability to maintain connectivity across subnet changes. We describe how the Session Initiation Protocol (SIP) can help provide terminal, personal, session and service mobility to applications ranging from Internet telephony to presence and instant messaging. We also briefly discuss application-layer mobility for streaming multimedia applications initiated by RTSP.

3 [Special issue on wireless extensions to the internet: Interworking internet telephony and wireless telecommunications networks](#)

Jonathan Lennox, Kazutaka Murakami, Mehmet Karaul, Thomas F. La Porta

October 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Internet telephony and mobile telephony are both growing very rapidly. Directly interworking the two presents significant advantages over connecting them through an intermediate PSTN link. We propose three novel schemes for the most complex aspect of

the interworking: call delivery from an Internet telephony (SIP) terminal to a mobile telephony (UMTS) terminal. We then evaluate the proposals both qualitatively and quantitatively. However, existing equipment may not support packet interfaces n ...

4 Dynamic vectorization: a mechanism for exploiting far-flung ILP in ordinary programs



Sriram Vajapeyam, P. J. Joseph, Tulika Mitra

May 1999 **ACM SIGARCH Computer Architecture News , Proceedings of the 26th annual international symposium on Computer architecture ISCA '99**, Volume 27 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(103.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



[Publisher Site](#)

Several ILP limit studies indicate the presence of considerable ILP across dynamically far-apart instructions in program execution. This paper proposes a hardware mechanism, *dynamic vectorization (DV)*, as a tool for quickly building up a large logical instruction window. Dynamic vectorization converts repetitive dynamic instruction sequences into vector form, enabling the processing of instructions from beyond the corresponding program loop to be overlapped with the loop. This enables vec ...

5 Streaming 2: ReMDoR: remote multimedia document retrieval over partial order transport



Phillip T. Conrad, Armando Caro, Paul Amer

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(1.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents results from performance experiments that demonstrate and quantify performance improvements when a PO/R transport service is used instead of an ordered/reliable service (O/R e.g., TCP) or an unordered/unreliable service (e.g. UDP). We first describe the *Remote Multimedia Document Retrieval system (ReMDoR)*, an experimental application developed by the authors to evaluate the performance of remote document retrieval over a variety of transport protocols. We then provide ...

Keywords: multimedia, partial order, transport protocols

6 Multicast tree generation in networks with asymmetric links

S. Ramanathan

August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4

Publisher: IEEE Press

Full text available: pdf(1.26 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Steiner trees, approximation algorithms, asymmetric links, directed graph, multicast

Results 1 - 6 of 6

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Nothing Found

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Quick Tips

- Enter your search terms in lower case with a space between the terms.

sales offices

You can also enter a full question or concept in plain language.

Where are the sales offices?

- Capitalize proper nouns to search for specific people, places, or products.

John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

"museum of natural history" "museum of modern art"

- Narrow your searches by using a + if a search term must appear on a page.

museum +art

- Exclude pages by using a - if a search term must not appear on a page.

museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

museum +"natural history" dinosaur -Chicago

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sctp "ip addresses" "two lists"

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